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NOTICE OF ALLOWANCE AND FEE(S) DUE

33308

7590

11/18/2009

LOWE HAUPTMAN HAM & BERNER, LLP 1700 DIAGONAL ROAD, SUITE 300 ALEXANDRIA, VA 22314

EXAMINER				
NGUYEN, CHUONG P				
ART UNIT	PAPER NUMBER			
3663				

DATE MAILED: 11/18/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,593	09/05/2006	Elias Bitar	4590-559	3392

TITLE OF INVENTION: CURVILINEAR DISTANCE ESTIMATION METHOD FOR A MOVING VEHICLE WITH LIMITED MANEUVERABILITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/18/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents
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appropriate. All further c	orrespondence including I below or directed oth	ig the Patent, advance of	rders and notification of	f maintenance fees w	vill be mailed to the current and/or (b) indicating a separate	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDE	NCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	N Fe pa ha	ote: A certificate of ee(s) Transmittal. Thi apers. Each additiona ave its own certificate	mailing can only be used for is certificate cannot be used for I paper, such as an assignme to of mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
LOWE HAUPT	7590 11/18 TMAN HAM & B L ROAD, SUITE 3 VA 22314	BERNER, LLP	T I	Cer	tificate of Mailing or Trans is Fee(s) Transmittal is bein with sufficient postage for fir l Stop ISSUE FEE address TO (571) 273-2885, on the d	smission
						(Depositor's name)
						(Signature)
			L			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,593	09/05/2006	•	Elias Bitar		4590-559	3392
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI		I	
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/18/2010
EXAMII	NER	ART UNIT	CLASS-SUBCLASS			
NGUYEN, Cl		3663	701-301000			
	ation (or "Fee Address" or more recent) attach D RESIDENCE DATA ss an assignee is identi in 37 CFR 3.11. Comp	' Indication form ed. Use of a Customer A TO BE PRINTED ON	•	tively, Igle firm (having as a r agent) and the nam teriorneys or agents. If the printed. Type) patent. If an assign assignment.	ee is identified below, the d	ocument has been filed for
Please check the appropria	ate assignee category or	categories (will not be pr	rinted on the patent):	Individual Co	orporation or other private gro	oup entity 🔲 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number			
5. Change in Entity State a. Applicant claims	SMALL ENTITY statu	is. See 37 CFR 1.27.		-	LL ENTITY status. See 37 C	
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requecords of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than c Office.	n the applicant; a regi	stered attorney or agent; or the	ne assignee or other party in
Authorized Signature _				Date		
Typed or printed name				Registration N	No	
This collection of informal an application. Confidentis submitting the completed his form and/or suggestion of the confidential and the	tion is required by 37 C ality is governed by 35 application form to the ons for reducing this bur	FR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND BELLS OF	on is required to obtain on 1.14. This collection is on the increase of depending upon the increase of the complete of the com	or retain a benefit by the estimated to take 12 in lividual case. Any colicer, U.S. Patent and TO THIS ADDRESS	he public which is to file (and minutes to complete, includir minutes on the amount of the trademark Office, U.S. Deposition of the SEND TO. Compissioner	by the USPTO to process) ig gathering, preparing, and me you require to complete artment of Commerce, P.O.

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10/591,593	93 09/05/2006 Elias Bitar		4590-559	3392	
33308 75	590 11/18/2009		EXAMINER		
LOWE HAUPTN	MAN HAM & BERN	NGUYEN, CHUONG P			
	ROAD, SUITE 300	ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	/A 22314		3663		
		DATE MAILED: 11/18/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 148 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 148 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/591,593	BITAR ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Chuong P. Nguyen	3663	
The MAILING DATE of this communication appea. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 10/29/09.	ears on the cover sheet wi (OR REMAINS) CLOSED in or other appropriate commit GHTS. This application is	ith the correspondence address in this application. If not included unication will be mailed in due cou	urse. THIS
			
2. ☑ The allowed claim(s) is/are <u>1-14</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	on No	n from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			TCE OF
5. X CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review	w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date 8/10/09.			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of In	formal Patent Application	
 Notice of References Cited (PTO-992) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	_	ummary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No.	/Mail Date Amendment/Comment	
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	_	Statement of Reasons for Allowa	ınce
of Biological Material	9.	·	

DETAILED ACTION

Drawings

1. The drawings were received on 10/29/2009. These drawings are acceptable.

Examiner's Statement Of Reason For Allowance

2. The following is an examiner's statement of reason for allowance:

Claims 1-14 are allowed.

The restriction requirement among species, as set forth in the Office action mailed on 07/30/2008, has been reconsidered in view of the allowability of claims to the elected invention pursuant to MPEP § 821.04(a). The restriction requirement is hereby withdrawn as to any claim that requires all the limitations of an allowable claim. Claims 3-5 and 8-9, are directed to species are no longer withdrawn from consideration because the claim(s) requires all the limitations of an allowable claim.

In view of the above noted withdrawal of the restriction requirement, applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

3. Regarding claim 1, the steps of cataloging distance map cells which are associated with the virtual, impassible obstacle that are inaccessible to the vehicle owing to its maneuverability limits; forcing the distance transform to put aside, in its search for the lengths of the shortest paths, the paths that are out of range of the vehicle owing to its limited maneuverability; and plotting a course which prohibits unrealistic vehicle turns based on the paths that are out of range of the vehicle owing to its limited maneuverability, in combination with the other claimed subject matter, have neither been taught nor made obvious by the art of record.

This statement is not intended to necessarily state all the reasons for allowance or all the details why the claims are allowed and has not been written to specifically or impliedly state that all the reasons for allowance are set forth (MPEP 1302.14).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong P. Nguyen whose telephone number is 571-272-3445. The examiner can normally be reached on M-F, 8:00 - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

Application/Control Number: 10/591,593

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 3663

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

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/Jack W. Keith/ Supervisory Patent Examiner, Art Unit 3663